

## AUTHOR INDEX

- Abouhilale, S. 55  
Auzanneau, F.-I. 13  
Azuma, I. 47
- Baer, H.H. 129  
Ban, C. 25  
Barbalat-Rey, F. 65  
Barili, P.L. c5  
Beier, B. 321  
Bensen, D. c9  
Bernardinelli, G. 65  
Berti, G. c5  
Bertoft, E. 229, 245  
Beynon, L.M. 219  
Bienaymé, H. 267  
Bizzozero, N. 65  
Brillouet, J.-M. 159  
Bundle, D.R. 13
- Chmielewski, M. 283  
Comper, W.D. 193  
Crossman, Jr., A. c9
- D'Andrea, F. c5  
Daeva, E.D. 301, 313  
Defaye, J. 129  
Delage, M.-M. 253  
Demchenko, A.V. 77  
Dolatshahi, N. 65
- El Khadem, H.S. c9  
El Sadek, M.M. 261
- Fujikura, K. 25  
Fujimoto, S. 201
- Gadelle, A. 129  
Gaudiosi, A. c5  
Geoffroy, M. 65  
Goto, M. 25  
Greiner, J. 55  
Gruenwedel, D.W. 37  
Gubanova, N.Ya. 301, 307, 313  
Gvozdyak, R.I. 295
- Hasegawa, A. 277  
Hatfield, R.D. 177  
Hayasaka, E. 25
- Ishida, H. 47, 277
- Jain, R.K. c1  
Jütten, P. 93
- Kanters, J.A. 1  
Kiso, M. 277  
Kitajima, T. 47  
Klimov, E.M. 77  
Knirel, Ya.A. 295, 301, 307, 313  
Kochetkov, N.K. 77  
Kroon, J. 1  
Kulshreshtha, D.K. 169
- Locke, R.D. c1  
López, M.G. 37  
Lubineau, A. 267
- Madhusudanan, K.P. 169  
Malysheva, N.N. 77  
Marcelin, O. 159  
Matta, K.L. c1  
Mostowicz, D. 283  
Movilliat, F. 129  
Murata, T. 289
- Nagahama, T. 201  
Nagahama, T. 277  
Nakagawa, T. 119  
Nardin, R. 129  
Noel, T.R. 109
- Ogawa, K. 289  
Ohki, H. 277  
Oxley, D. 187, 213
- Pelikán, P. 273  
Pérez, S. 253  
Perry, M.B. 219  
Piepersberg, W. 321  
Plaček, J. 273
- Richards, J.C. 219  
Riess, J.G. 55  
Ring, S.G. 109
- Sachdev, K. 169  
Saito, K.-i. 25  
Sakakibara, T. 119  
Sakurai, T. 47  
Saulnier, L. 159  
Scharf, H.-D. 93  
Schürle, K. 321  
Seta, A. 119  
Setoguchi, S. 201  
Shashkov, A.S. 295, 301, 307, 313  
Šimkovic, I. 273  
Solyanik, L.P. 295, 307, 313

Srivastava, R. 169  
Sugai, K. 25  
Suganuma, T. 201  
Sugiyama, N. 25

Tomita, K. 25  
Tronchet, J.M.J. 65

Usui, T. 289

Van Dijk, B. 1  
Vinogradov, E.V. 295, 301, 307, 313

Werbitzky, O. 321  
Whittam, M.A. 109  
Wilkinson, S.G. 187, 213

Yakovleva, L.M. 301, 307, 313  
Yamada, N. 25  
Yamazaki, M. 47

Zagzoug, N.B. 261  
Zakharova, I.Ya. 301  
Zamparo, O. 193  
Zdorovenko, G.M. 295, 301, 307, 313  
Zegrocka, O. 283  
Zsély, M. 65

## SUBJECT INDEX

- 2-Acetamido-2-deoxy-3-*O*- $\beta$ -D-galactopyranosyl-D-galactose, synthesis through a triflyl group displacement, of, 267
- N*-Acetylneuraminate, sodium thermal and photochemical degradation of, 25
- N*-Acetylneuraminic acid, methyl 2-thioglycoside of, facile, large-scale preparation, 277
- Alfalfa-stem pectins: enzymic degradation and structural characterization of a buffer-soluble fraction, 177
- Alpha-dextrins derived from amylopectin and their relation to the structure of waxy-maize starch, investigation of the fine structure of, 229
- Amadori compounds, aromatic, synthesis of, 37
- Amino- and nitro-heptoseptanosides obtained by cyclization of dialdehydes with nitromethane, structure and reactions of, 129
- Aminocyclitols, use of the methyl ether as a protective group in the synthesis of, 321
- Amylopectin, chains of intermediate lengths in waxy-maize, 245
- Antigen from *Serratia marcescens*, structure of the O21, 187
- Branched-chain monosaccharides, synthesis of three examples of a new class of, 283
- Capsular polysaccharide from *Actinobacillus pleuropneumoniae* serotype 12, structural studies of the, 219
- 2-*C*-Carbamoyl-, 2-*C*-cyano-, and 2-*C*-acetamidomethyl-substituted glycosides, synthesis of, 283
- Chains of intermediate lengths in waxy-maize amylopectin, 245
- Crystal and molecular structure of methyl  $\alpha$ -D-galactopyranoside 4-(sodium sulphate) dihydrate, 1
- 2-Deoxy sugars, formation of enolate semiquinones during the alkaline oxidative degradation of, 273
- D-Enzyme from sweet potato, analysis of its characteristic action in terms of subsite theory, 201
- 6,6'-Di-*O*-mycoloyl- $\beta$ , $\beta$ - and - $\alpha$ , $\beta$ -trehalose, synthesis and biological activities, 47
- Database of three-dimensional structures of monosaccharides from molecular-mechanics calculations, 253
- Dialdehydes with nitromethane, structure and reactions of amino- and nitro-heptoseptanosides obtained by cyclization of dialdehydes with nitromethane, 129
- Dihydrofuran derivatives by intramolecular substitution of the *manno* adducts formed by Michael reaction of a 1-*O*-acetyl-3-*C*-nitro-2-enopyranose derivative with 2,4-pentanedione and dibenzoylmethane, formation of, 119
- Enolate semiquinones formed during the alkaline oxidative degradation of 2-deoxy sugars, 273
- 1,2-Ethylthio group migration, stereospecific, incidence and avoidance of, during the synthesis of ethyl 1-thio- $\alpha$ -L-rhamnopyranoside 2,3-orthoester, 13
- Evernitrose, an improved synthesis of, 93
- Extraction and characterisation of water-soluble pectic substances from guava (*Psidium guajava*, L.), 159
- Fatty acid glycoside from *Ipomoea pescaprae*, structure (pescaproside E), 169
- Fine structure of alpha-dextrins derived from amylopectin and their relation to the structure of waxy-maize starch, investigation of the, 229
- Formation of dihydrofuran derivatives by intramolecular substitution of the *manno* adducts formed by Michael reaction of a 1-*O*-acetyl-3-*C*-nitro-2-enopyranose derivative with 2,4-pentanedione and dibenzoylmethane, 119
- $\alpha$ -L-Fucp-(1 $\rightarrow$ 2)- $\beta$ -D-Galp-(1 $\rightarrow$ 4)-D-Glcp, synthesis of, c1
- 2'-*O*-L-Fucplactose, synthesis of, c1
- 3-Furoylhydrazine, synthesis and reactions of 2-methyl-5-(D-*arabino*-tetrahydroxybutyl), 261
- Galactopyranoside 4-(sodium sulphate) dihydrate, crystal and molecular structure of methyl  $\alpha$ -D-, 1
- $\beta$ -D-Galp-(1 $\rightarrow$ 3)-D-Galp, synthesis through a triflyl group displacement of, 267
- Glass-transition behaviour of maltose–water mixtures, kinetic aspects of the, 109
- Glycosidic linkage, correlation with the magnitude of the hydrodynamic frictional coefficient of polysaccharides, 193
- Glycosylation, a new stereospecific method for 1,2-*cis*, 77
- Guava (*Psidium guajava* L.), extraction and characterisation of water-soluble pectic substances from, 159

- Hydrodynamic frictional coefficient of polysaccharides, the role of the glycosidic linkage, 193
- 2-Hydroxyamino- $\alpha$ -D-arabino- and -*lyxo*-hexopyranosides, synthesis and properties of derivatives of methyl 2,3-dideoxy-, 65
- Ipomoea pescaprae*, structure of a fatty acid glycoside from (pescaproside E), 169
- Kinetic aspects of the glass-transition behaviour of maltose-water mixtures, 109
- Lactose, 2'-O-L-fucopyranosyl-, synthesis of, c1
- Lipopolysaccharide of *Pseudomonas syringae* pv. *tabaci* 225 (serogroup VIII), structure of the O-specific polysaccharide chain, 307
- Lipopolysaccharide of *Pseudomonas gladioli* pv. *alliicola* 8494 (serogroup X), structure of the O-specific polysaccharide chain, 313
- Lipopolysaccharide of the reference strain (S3255) for a new serogroup of *Serratia marcescens*, structure of a mannan isolated from the, 213
- Lipopolysaccharide, structure of the O-specific polysaccharide chain of *Pseudomonas syringae* pv. *syringae* (*cerasi*), 435
- Lipopolysaccharide of *Pseudomonas syringae* pv. *lachrymans* 7591 (serogroup IX), structure of the O-specific polysaccharide chain, 301
- Maltose-water mixtures, kinetic aspects of the glass-transition behaviour of, 109
- Maltotetraose-forming, amylase-mediated, *p*-nitrophenyl  $\alpha$ - and - $\beta$ -maltopentaoside formation in an aqueous-organic solvent system: a substrate for human serum, 289
- Mannan isolated from the lipopolysaccharide of the reference strain (S3255) for a new serogroup of *Serratia marcescens*, structure of a, 213
- 2-Methyl-5-(D-arabino-tetrahydroxybutyl)-3-furoylhydrazine, synthesis and reactions of, 261
- Methyl 2,3-dideoxy-2-hydroxyamino- $\alpha$ -D-arabino- and -*lyxo*-hexopyranosides, synthesis and properties of derivatives of, 65
- Methyl ether as a protective group in the synthesis of aminocyclitols, use of the, 321
- Methyl  $\alpha$ -D-galactopyranoside 4-(sodium sulphate) dihydrate, crystal and molecular structure of, 1
- Methyl 2-thioglycoside of *N*-acetylneuraminic acid, facile, large-scale preparation, 277
- Michael reaction of a, 1-O-acetyl-3-C-nitro-2-enopyranose derivative with 2,4-pentanedione and dibenzoylmethane, formation of dihydrofuran derivatives by intramolecular substitution of the *manno* adducts formed by, 119
- Migration, stereospecific, 1,2-ethylthio group, during the synthesis of ethyl 1-thio- $\alpha$ -L-rhamnopyranoside 2,3-orthoester, incidence and avoidance of, 13
- Molecular-mechanics calculations, database of three-dimensional structures of monosaccharides from, 253
- Neuraminate, *N*-acetyl-, sodium, thermal and photochemical degradation of, 25
- Oxidative degradation of 2-deoxy sugars, enolate semiquinones formed during the alkaline, 273
- Pectic substances from guava (*Psidium guajava* L.), extraction and characterisation of water-soluble, 159
- Pectins, alfalfa-stem, enzymic degradation and structural characterization, 177
- 6-Perfluoroalkylalkanoates of trehalose and sucrose, one-step preparation for biomedical uses, 55
- Peroxidation of saccharide phenylhydrazones, c9
- Pescaproside E, a fatty acid glycoside from *Ipomoea pescaprae*, structure, 169
- Phenylhydrazone, peroxidation of saccharide, c9
- Polysaccharide, the capsular, from *Actinobacillus pleuropneumoniae* serotype 12, 219
- Polysaccharides, the role of the glycosidic linkage in determining the hydrodynamic frictional coefficient of, 193
- Preparation of 6-perfluoroalkylalkanoates of trehalose and sucrose for biomedical uses, one-step, 55
- Pseudomonas gladioli* pv. *alliicola* 8494 (serogroup X) lipopolysaccharide, structure of the O-specific polysaccharide chain of, 313
- Pseudomonas syringae* pv. *lachrymans* 7591 (serogroup IX) lipopolysaccharide structure of the O-specific polysaccharide chain of, 301
- Pseudomonas syringae* pv. *syringae* (*cerasi*) 435 lipopolysaccharide, structure of the O-specific polysaccharide chain of, 295
- Pseudomonas syringae* pv. *tabaci* 225 (serogroup VIII) lipopolysaccharide structure of the O-specific polysaccharide chain of, 307
- Saccharide phenylhydrazones, peroxidation of, c9
- Serratia marcescens*, structure of a mannan isolated from the lipopolysaccharide of the reference strain (S3255) for a new serogroup of, 213
- Serratia marcescens*, structure of the O21 antigen from, 187
- Sodium *N*-acetylneuraminate, thermal and photochemical degradation of, 25
- L-Sorbal (2,6-anhydro-3-deoxy-L-threo-hex-2-enitol) and L-tagatose, synthesis from D-galactose, c5



- Starch, investigation of the fine structure of alpha-dextrins derived from amylopectin and their relation to the structure of waxy-maize, 229
- Stereospecific method for 1,2-*cis*-glycosylation, a new, 77
- Structure and reactions of amino- and nitro-heptoseptanosides obtained by cyclization of dialdehydes with nitromethane, 129
- Structures of monosaccharides from molecular-mechanics calculations, database of three-dimensional, 253
- Structure of the O21-antigen from *Serratia marcescens*, 187
- Structure of the O-specific polysaccharide chain of *Pseudomonas syringae* pv. *lachrymans* 7591 (serogroup IX) lipopolysaccharide, 301
- Structure of the O-specific polysaccharide chain of *Pseudomonas gladiolo* pv. *alliicola* 8494 (serogroup X) lipopolysaccharide, 313
- Structure of the O-specific polysaccharide chain of *Pseudomonas syringae* pv. *tabaci* 225 (serogroup VIII) lipopolysaccharide, 307
- Structure of the O-specific polysaccharide chain of *Pseudomonas syringae* pv. *syringae* (*cerasi*) 435 lipopolysaccharide, 295
- Sweet potato, D-enzyme from, analysis of its characteristic action, 201
- Synthesis and properties of derivatives of methyl 2,3-dideoxy-2-hydroxyamino- $\alpha$ -*arabino*- and -*lyxo*-hexopyranosides, 65
- Synthesis and reaction of 2-methyl-5-(*D-arabino*-tetrahydroxybutyl)-3-furoylhydrazine, 261
- Synthesis of aminocyclitols, use of the methyl ether as a protective group in the, 321
- Synthesis of 2,6-anhydro-3-deoxy-L-*threo*-hex-2-enitol ('L-sorbal') and of L-tagatose from D-galactose, c5
- Synthesis of aromatic Amadori compounds, 37
- Synthesis of 2-C-carbamoyl-, 2-C-cyano-, and 2-C-acetamidomethyl-substituted glycosides, 283
- Synthesis of evernitrose, an improved, 93
- L-Tagatose and 'L-sorbal' (2,6-anhydro-3-deoxy-L-*threo*-hex-2-enitol), synthesis from D-galactose, c5
- Trehalose and sucrose, one-step preparation of 6-perfluoroalkylalkanoates for biomedical uses, 55
- Trehalose, 6,6'-di-O-mycoloyl- $\beta,\beta$ - and - $\alpha,\beta$ -, synthesis and biological activities, 47
- Trifluoromethylsulfonyl group displacement, synthesis of  $\beta$ -D-Galp-(1 $\rightarrow$ 3)-D-Galp through, 267
- Waxy-maize amylopectin, chains of intermediate lengths in, 245

